

--ABSTRACT OF THE DISCLOSURE

A radio base station apparatus may include two diversity antennas spaced apart by a distance that allows space diversity, with each diversity antenna functioning as an adaptive array antenna. Each diversity antenna has a corresponding transmitter that includes a calculator that calculates a transmission weight from one of (i) a reception weight determined based on an uplink signal and (ii) direction of arrival information. Each transmitter also has a multiplier that multiplies only a transmission signal for a channel to a specific user by the transmission weight. Also, each transmitter has a transmit power controller that controls the transmit power of the transmission signal, multiplied by the transmission weight, in accordance with a transmit power control signal.--